

IMMUNE RESPONSES  
USING COMPOSITIONS CONTAINING STRESS PROTEINS

ABSTRACT

5       The present invention relates to a vaccine for  
inducing an immune response to an antigen in a vertebrate  
(e.g., mammal) comprising an antigen and all or a portion  
of a stress protein or all or a portion of a protein having  
an amino acid sequence sufficiently homologous to the amino  
10 acid sequence of the stress protein to induce the immune  
response against the antigen. In a particular embodiment,  
the present invention relates to vaccines and compositions  
which induce a CTL response in a mammal comprising an  
antigen and all or a portion of a stress protein. In  
15 another embodiment, the invention relates to vaccines and  
compositions which induce an immune response to an  
influenza virus in a mammal comprising an antigen of the  
influenza virus and all or a portion of one or more stress  
proteins. The invention also relates to vaccines and  
20 compositions for inducing a CTL response to a tumor-  
associated antigen comprising a tumor-associated antigen  
and all or a portion of the stress protein. The invention  
also relates to vaccines and composition for suppressing  
allergic immune responses to allergens comprising an  
25 allergen and all or a portion of a stress protein.